t7_finsub_1 (TMF9zTees6DT387sVJRXUrp5TWWaFZyBnhM)

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Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v4\_finsub\_1 : \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k5\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.k5\_xboole\_0\ X0\ X0 = k1\_xboole\_0 \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((\neg v1\_xboole\_0\ X2) \wedge (v4\_finsub\_1\ X2)) \Rightarrow (((m1\_subset\_1\ X0\ X2) \wedge (m1\_subset\_1\ X1\ X2)) \Rightarrow (m1\_subset\_1\ (k5\_xboole\_0\ X0\ X1)\ X2)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X0\ X1) \Rightarrow ((v1\_xboole\_0\ X1) \vee (X0 \in X1)) \tag{3}$$

Assume the following.

$$\forall X0.\exists X1.m1\_subset\_1\ X1\ X0 \tag{4}$$

Theorem 1 $\forall X0.((\neg v1\_xboole\_0\ X0) \wedge (v4\_finsub\_1\ X0)) \Rightarrow (k1\_xboole\_0 \in X0)$.